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To: R. Fenner **Date:** June 11, 1991

From: B. Handy and W. S. Ryan, Jr.

Subject: Chemical Analyses for Blend Composition Calculations

Recently, a proposal to update the chemical database and semi-routinely moniter the blend composition of twenty-two domestic brands was advanced. The program as outlined would significantly impact the resources of the Chemical Analysis Section. A meeting to review and discuss the chemical predictors used in the current blend composition calculations has been scheduled for **June 12th at 9:00 AM in E-2 Conference Room.** The following are topics to be discussed.

1. Cellulose Index: current predictor for stem is based on a lengthy and tedious procedure (ARD Method E-62) with an RSD(2σ) of 10% for the N9AK monitor with a 5.78% value.

2. Other stem discriminators: brief history of other stem discriminator trials and empirical extraction procedures (fiber, insoluble fiber, etc.) investigated.

3. Chlorogenic Acid and/or Rutin: possible chemical predictors for bright using HPLC procedure (ARD Method E-54A).

4. Elemental Analyses: any elements that could be used in model; calcium and chloride were initially used as predictors for bright lamina and stem, respectively.

5. Picked or floated material: solvent effects and necessity of analyzing both portions. *cyclopentane vs Acetone Would want both floated & unfloated portion + an untreated sample.

6. NIR: applicability of this technique to program.

Would need procedure written for samples for Chemical Analysis

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Central Files

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